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Figure 1A: Retention of Activity by PEGylated *Candida* Uricase

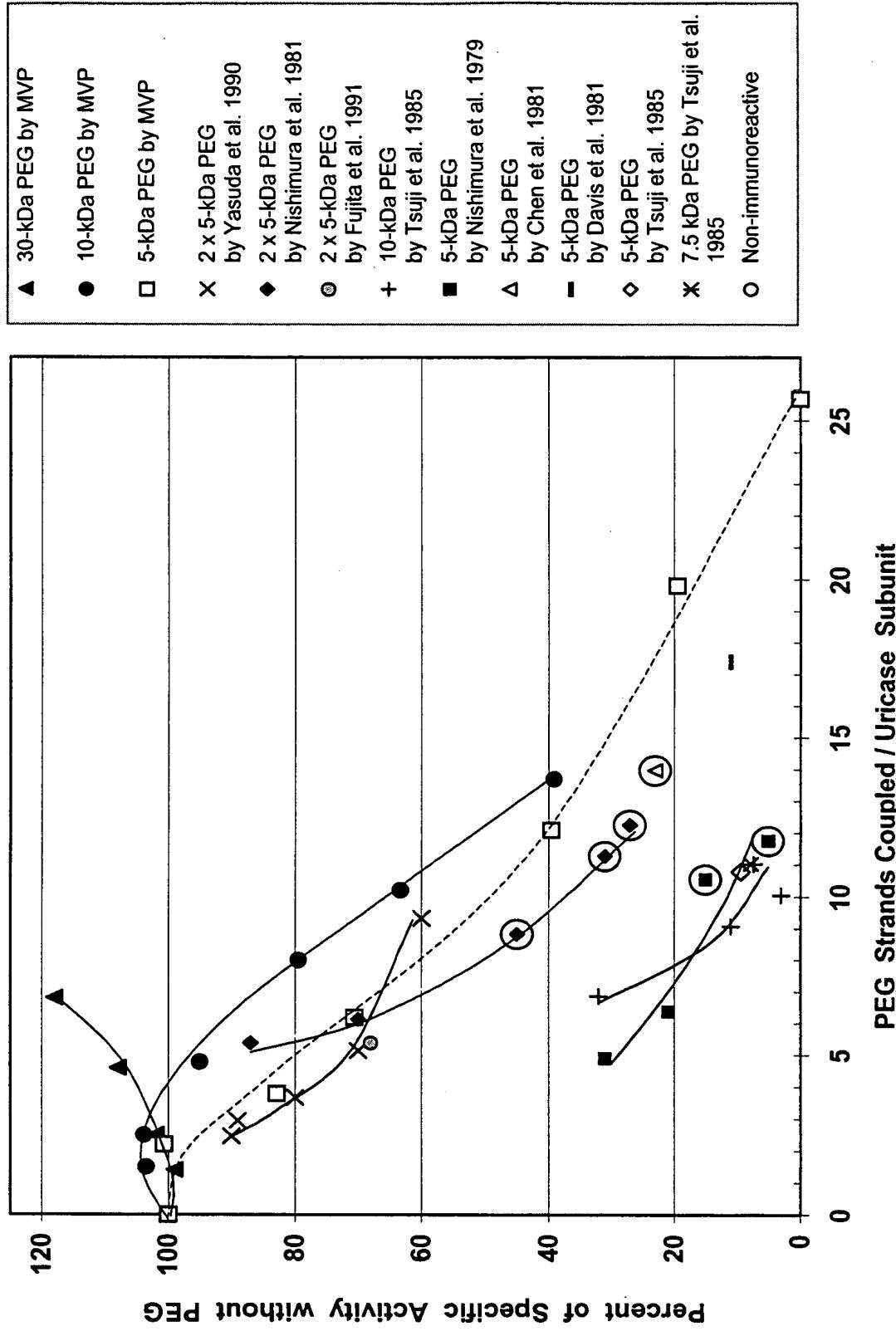


Figure 1B: Retention of Activity by PEGylated *Candida* Uricase

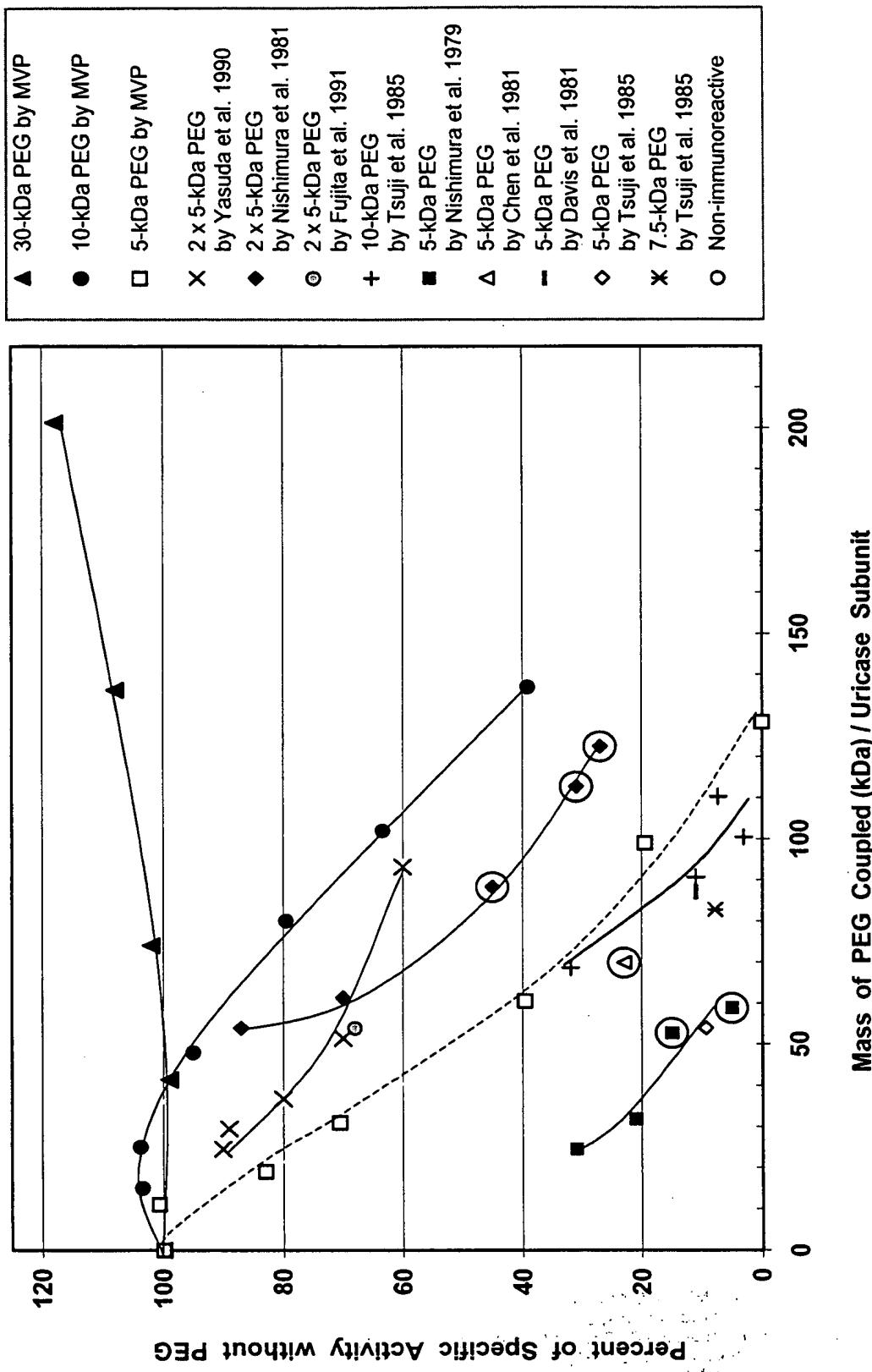


Figure 2A: Retention of Activity by PEGylated Porcine Uricase

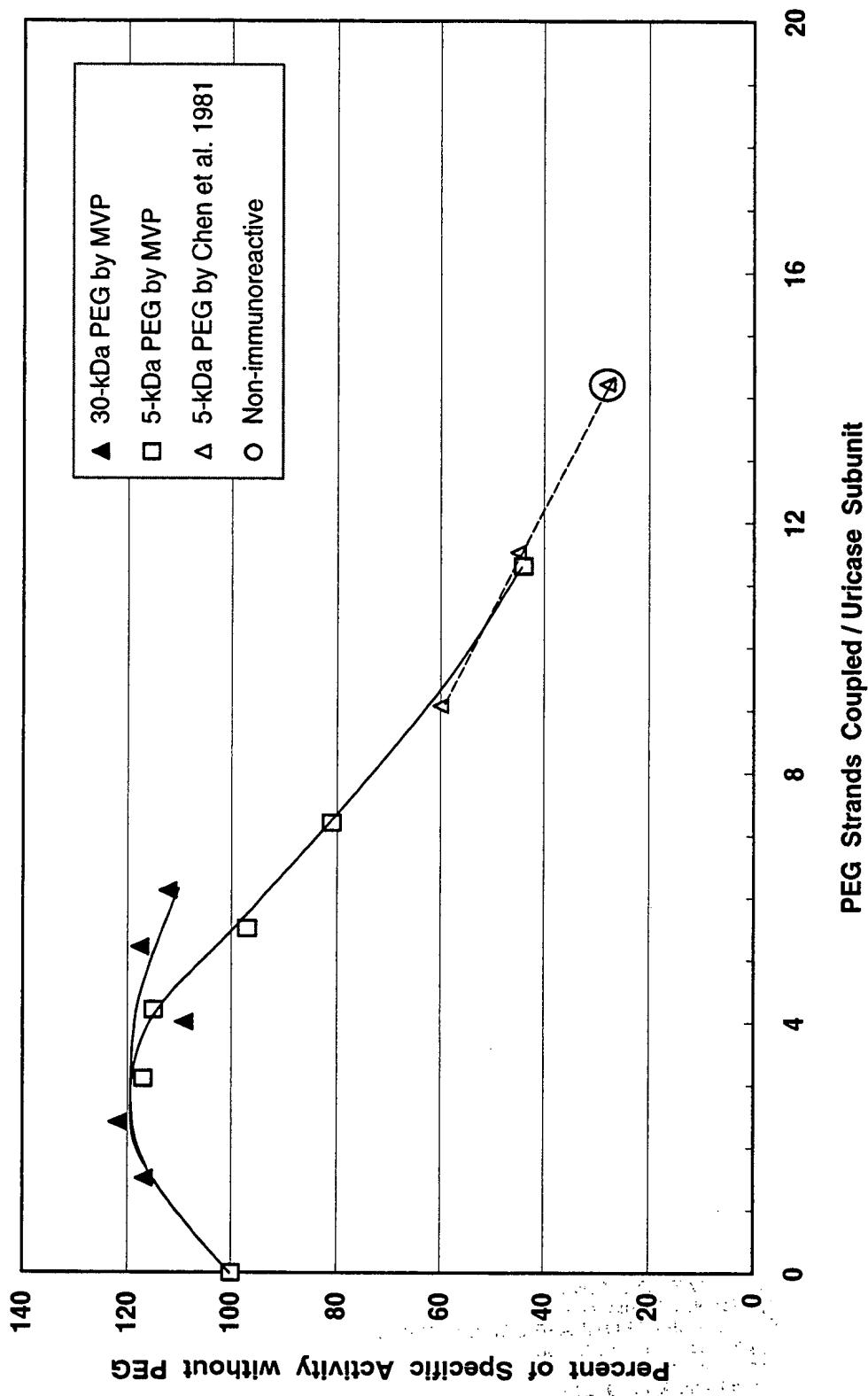


Figure 2B: Retention of Activity by PEGylated Porcine Uricase

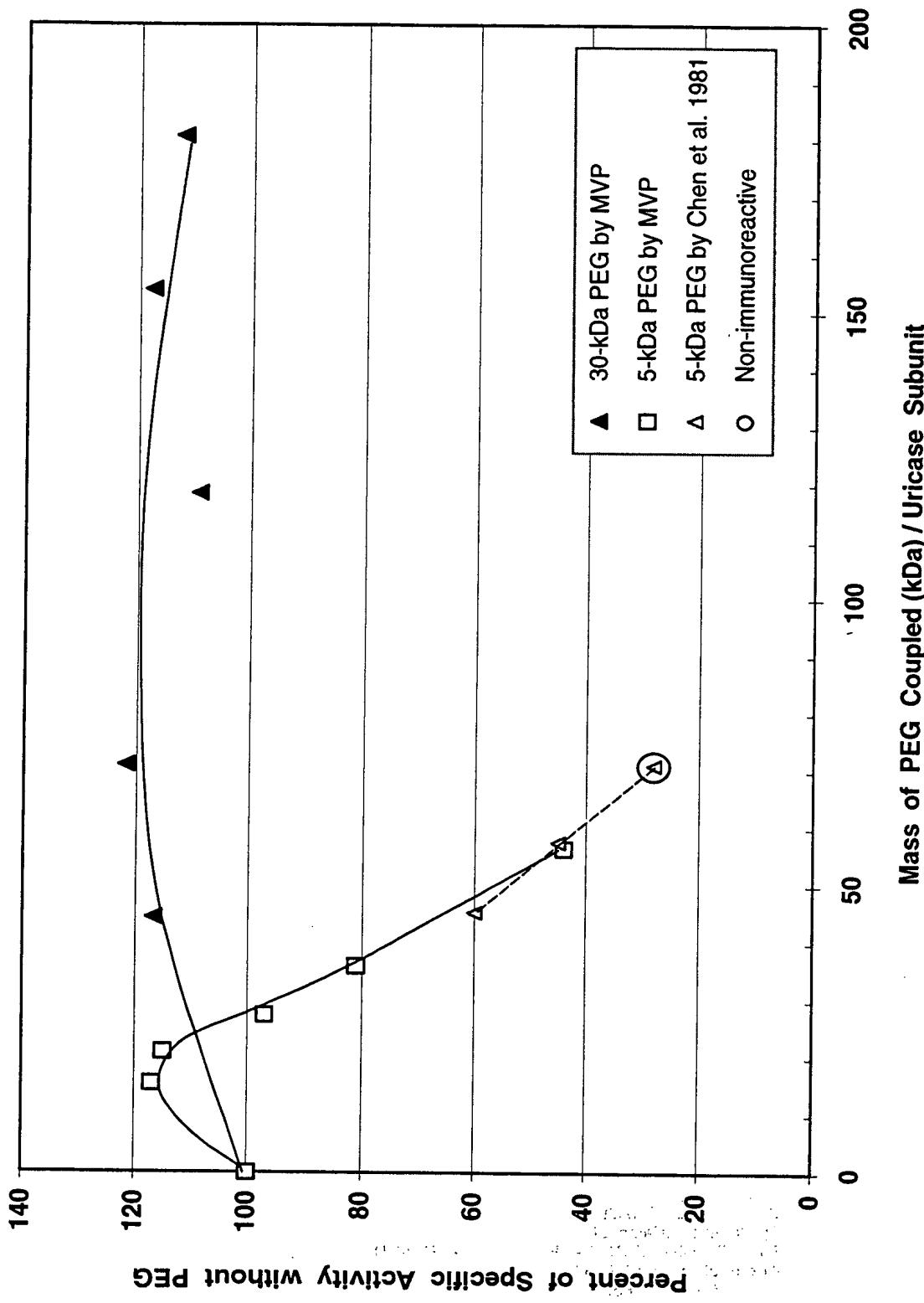


Figure 3A: Retention of Activity by PEGylated PBC Uricase

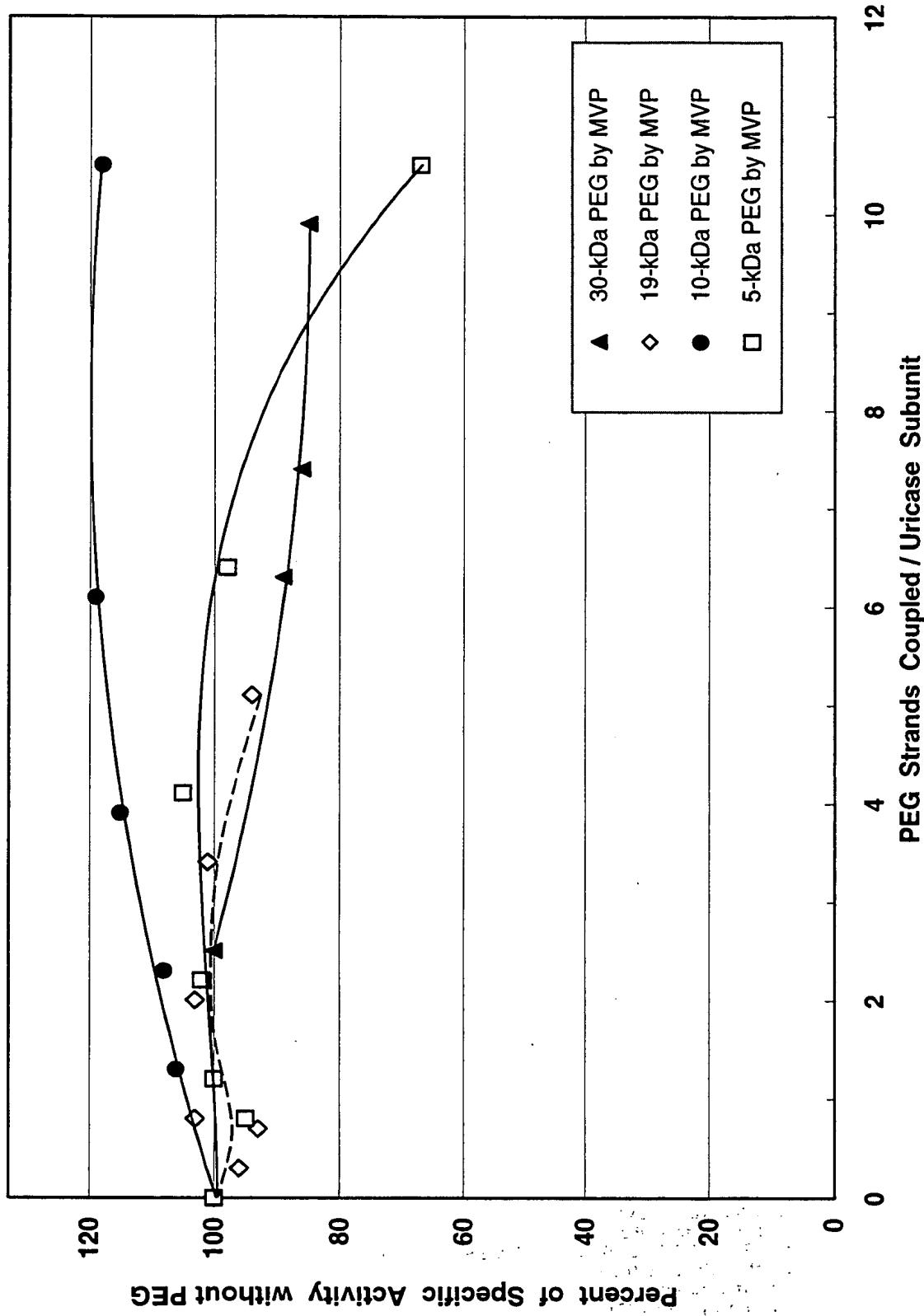


Figure 3B: Retention of Activity by PEGylated PBC Uricase

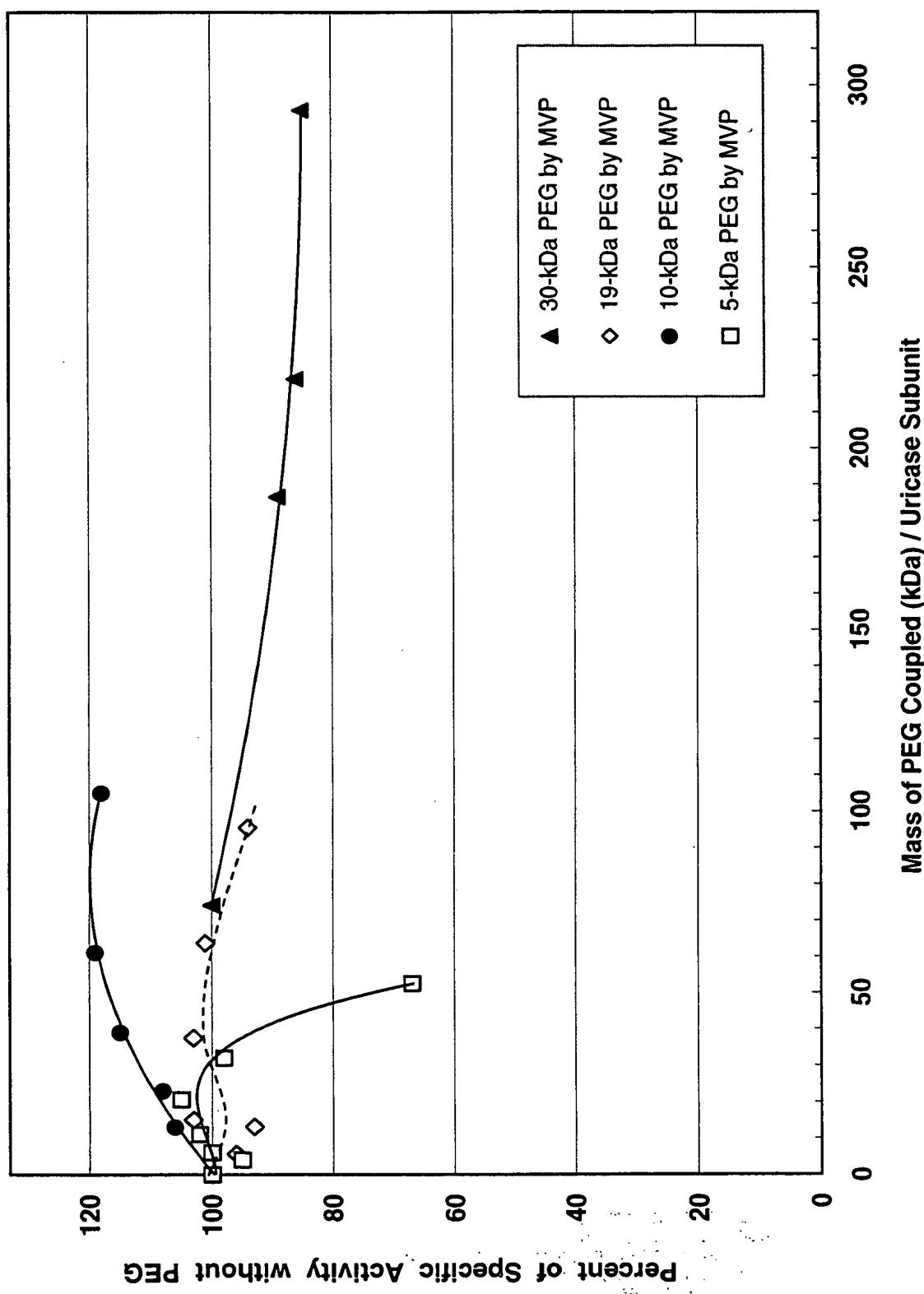


Figure 4A:

Retention of Activity by PEGylated Uricozyme® (*A. flavus* Uricase)

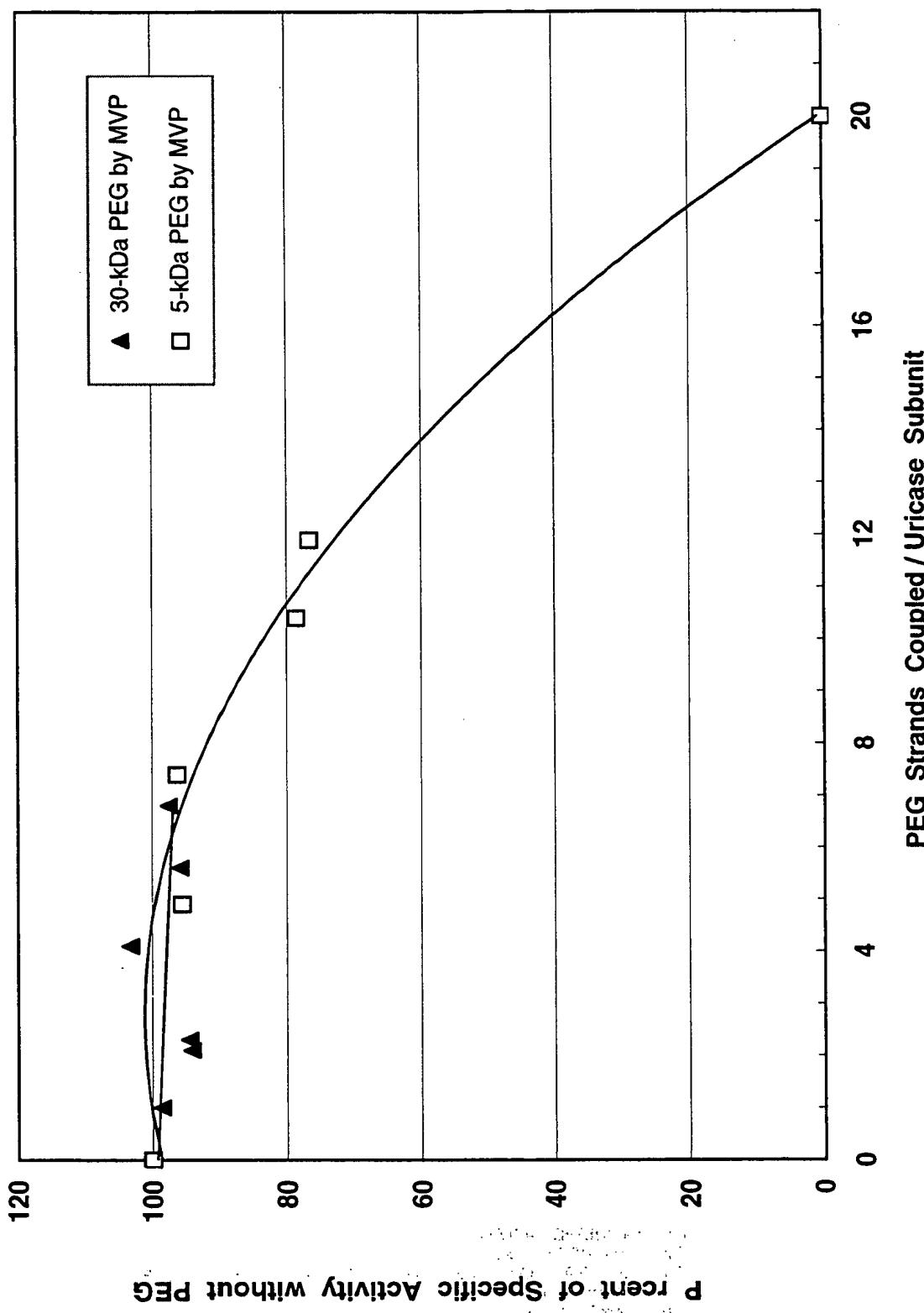


Figure 4B:

Retention of Activity by PEGylated Uricozyme® (*A. flavus* Uricase)

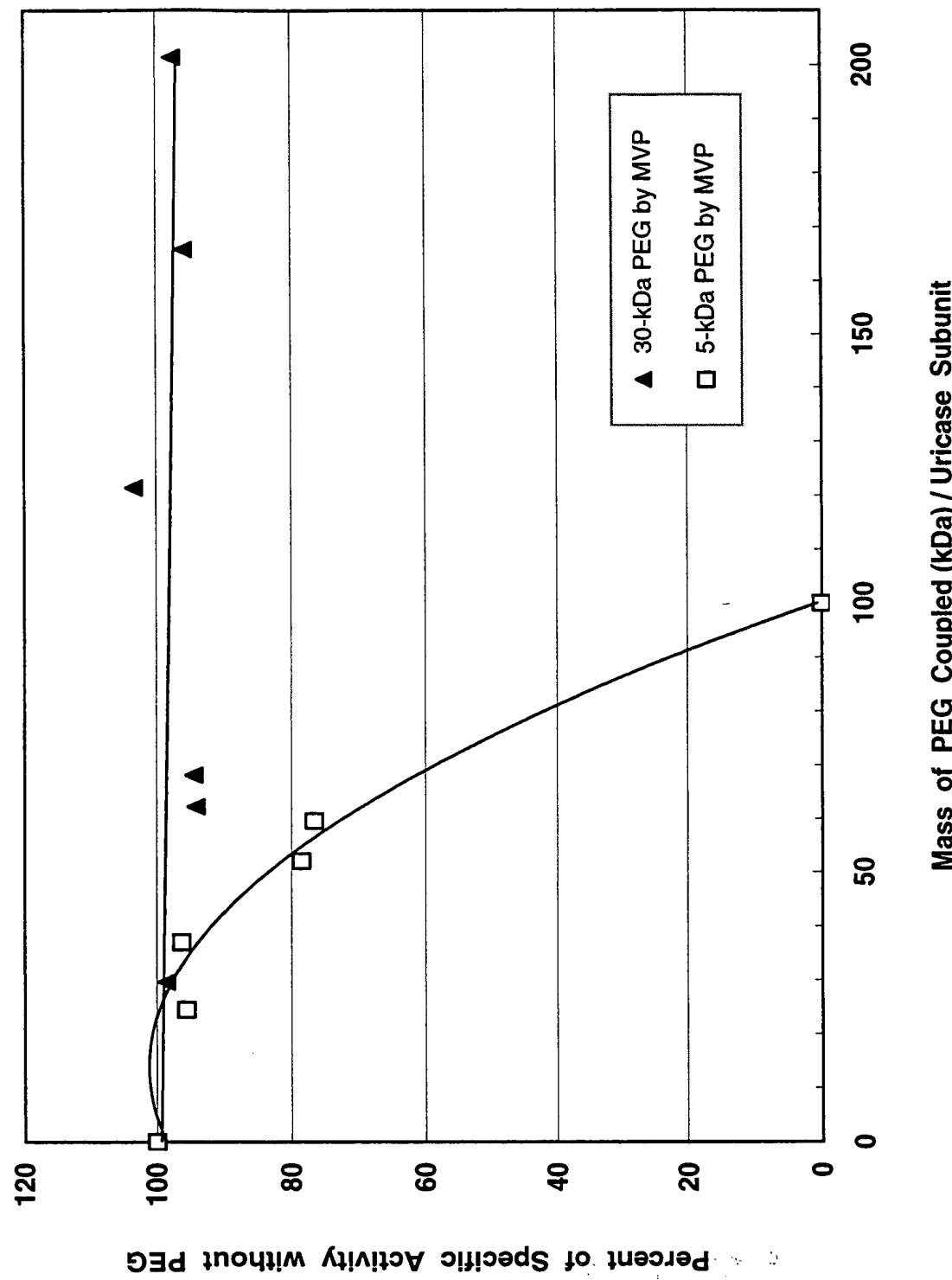


Figure 5A: Retention of Activity by PEGylated Soybean Uricase

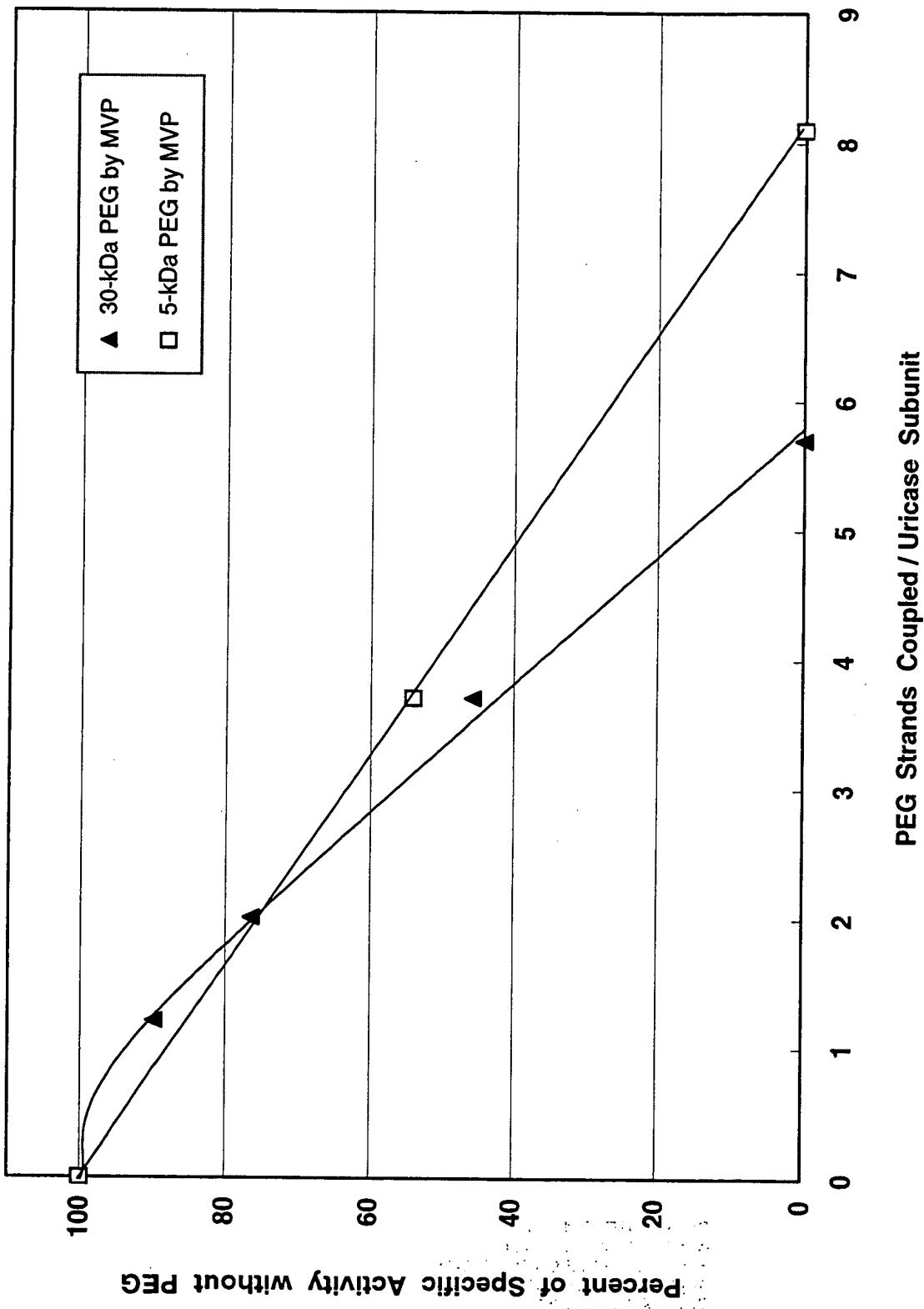


Figure 5B: Retention of Activity by PEGylated Soybean Uricase

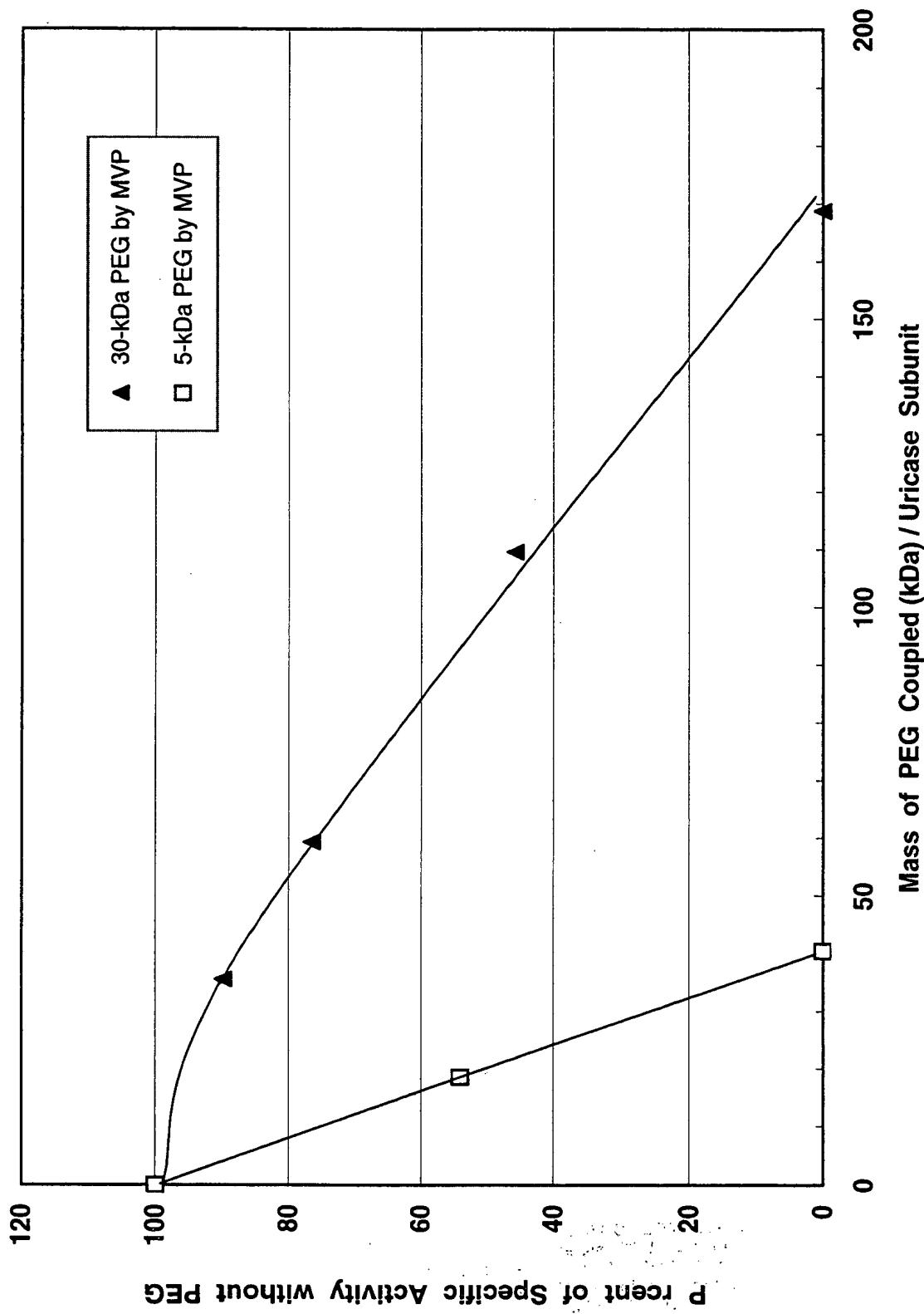


Figure 6: Deduced amino acid sequences of Pig-Baboon Chimeric (PBC) uricase, PBC uricase that is truncated at the amino and carboxyl terminals (PBC-NT-CT) and Porcine uricase containing the mutations R291K and T301S (PKS Uricase) (SEQ ID NO:3), compared with the porcine sequence (SEQ ID NO: 1) and baboon sequence (SEQ ID NO: 2)

Porcine	MAHYRNDYKK	NDEVEFVRTG	YGKDMIKVLH	IQRDGKYHSI	40
PBC	porcine sequence 1-225 →				40
PBC-NT-CT	porcine sequence 1-219 →				34
PKS	porcine sequence 1-288 →				40
Baboon	MADYHNNYKK	NDELEFVRTG	YGKDMVKVLH	IQRDGKYHSI	40
Porcine	KEVATSVQLT	LSSKKDYLHG	DNSDVIPTDT	IKNTVNVLAK	80
PBC	porcine sequence →				80
PBC-NT-CT	porcine sequence →				74
PKS	porcine sequence →				80
Baboon	KEVATSVQLT	LSSKKDYLHG	DNSDIIPTDT	IKNTVHVLAK	80
Porcine	FKGIKSIETF	AVTICEHFLS	SFKHVIRAQV	YVEEVPKRF	120
PBC	porcine sequence →				120
PBC-NT-CT	porcine sequence →				114
PKS	porcine sequence →				120
Baboon	FKGIKSIEAF	GVNICEYFLS	SFNHVIRAQV	YVEEVPKRF	120
Porcine	EKNGVKHVHA	FIYPTPTGTHF	CEVEQIRNGP	PVIHSGIKDL	160
PBC	porcine sequence →				160
PBC-NT-CT	porcine sequence →				154
PKS	porcine sequence →				160
Baboon	EKNGVKHVHA	FIYPTPTGTHF	CEVEQLRSGP	PVIHSGIKDL	160
Porcine	KVLKTTQSGF	EGFIKDQFTT	LPEVKDRCFA	TQVYCKWRYH	200
PBC	porcine sequence →				200
PBC-NT-CT	porcine sequence →				194
PKS	porcine sequence →				200
Baboon	KVLKTTQSGF	EGFIKDQFTT	LPEVKDRCFA	TQVYCKWRYH	200
Porcine	QGRDVDFEAT	WDTVRSIVLQ	KFAGPYDKGE	YSPSVQKTLY	240
PBC	porcine sequence →		→ ← baboon sequence		240
PBC-NT-CT	porcine sequence →		→ ← baboon sequence		234
PKS	porcine sequence →				240
Baboon	QCRDVDFEAT	WGTIRDLVLE	KFAGPYDKGE	YSPSVQKTLY	240
Porcine	DIQVLTLGQV	PEIEDMEISL	PNIHYLNIDM	SKMGLINKEE	280
PBC	baboon sequence →				280
PBC-NT-CT	baboon sequence →				274
PKS	porcine sequence →				280
Baboon	DIQVLSLSRV	PEIEDMEISL	PNIHYFNIDM	SKMGLINKEE	280
Porcine	VLLPLDNPYG	RITGTVKRKL	TSRL	304	
PBC	baboon sequence →			304	
PBC-NT-CT	baboon sequence →			295	
PKS	porcine ← baboon →			304	
Baboon	VLLPLDNPYG	KITGTVKRKL	SSRL	304	

Figure 7: Serum Uricase Activity 24 Hours after Each PEG-Uricase Injection, Relative to the First Injection

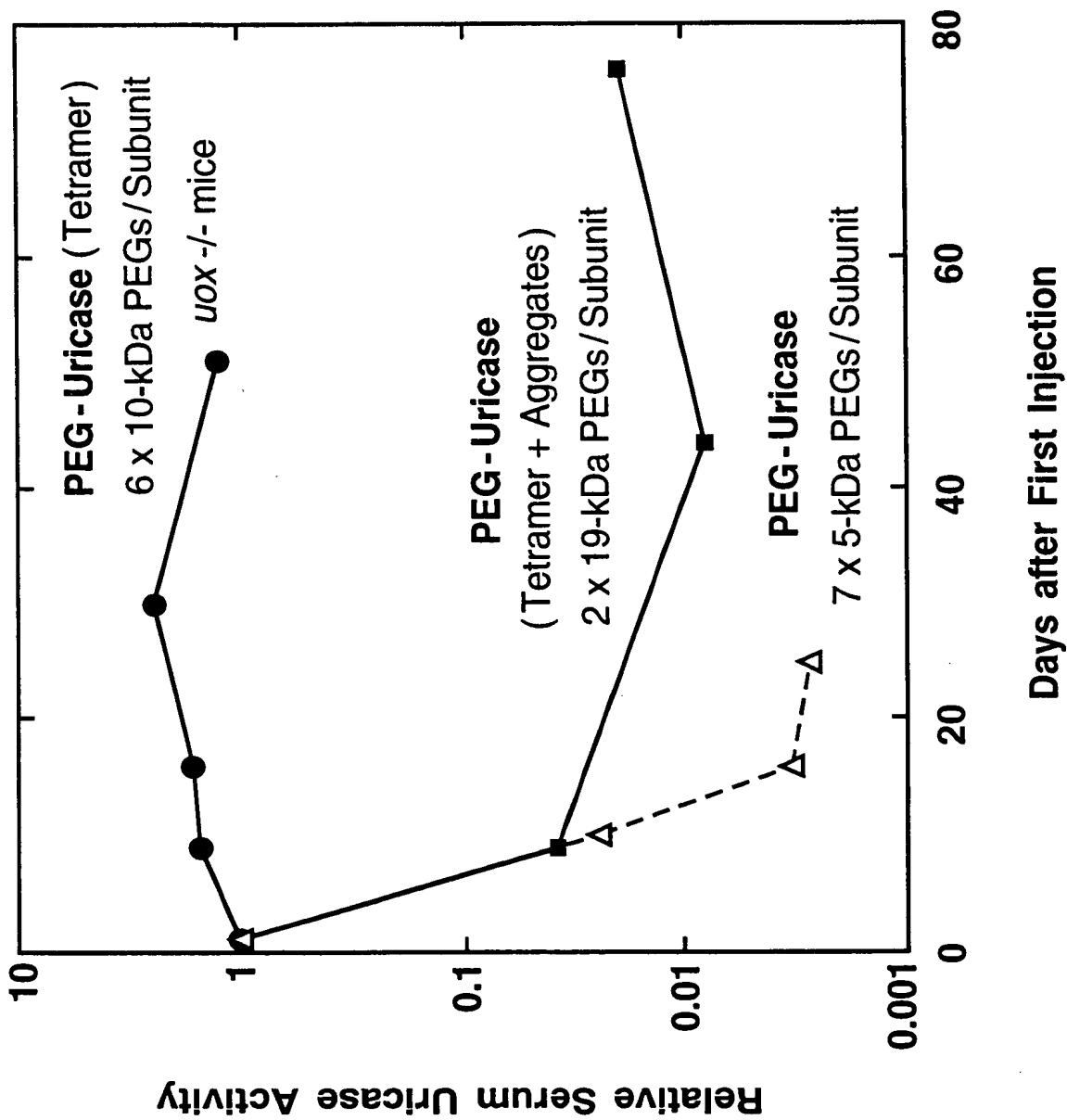
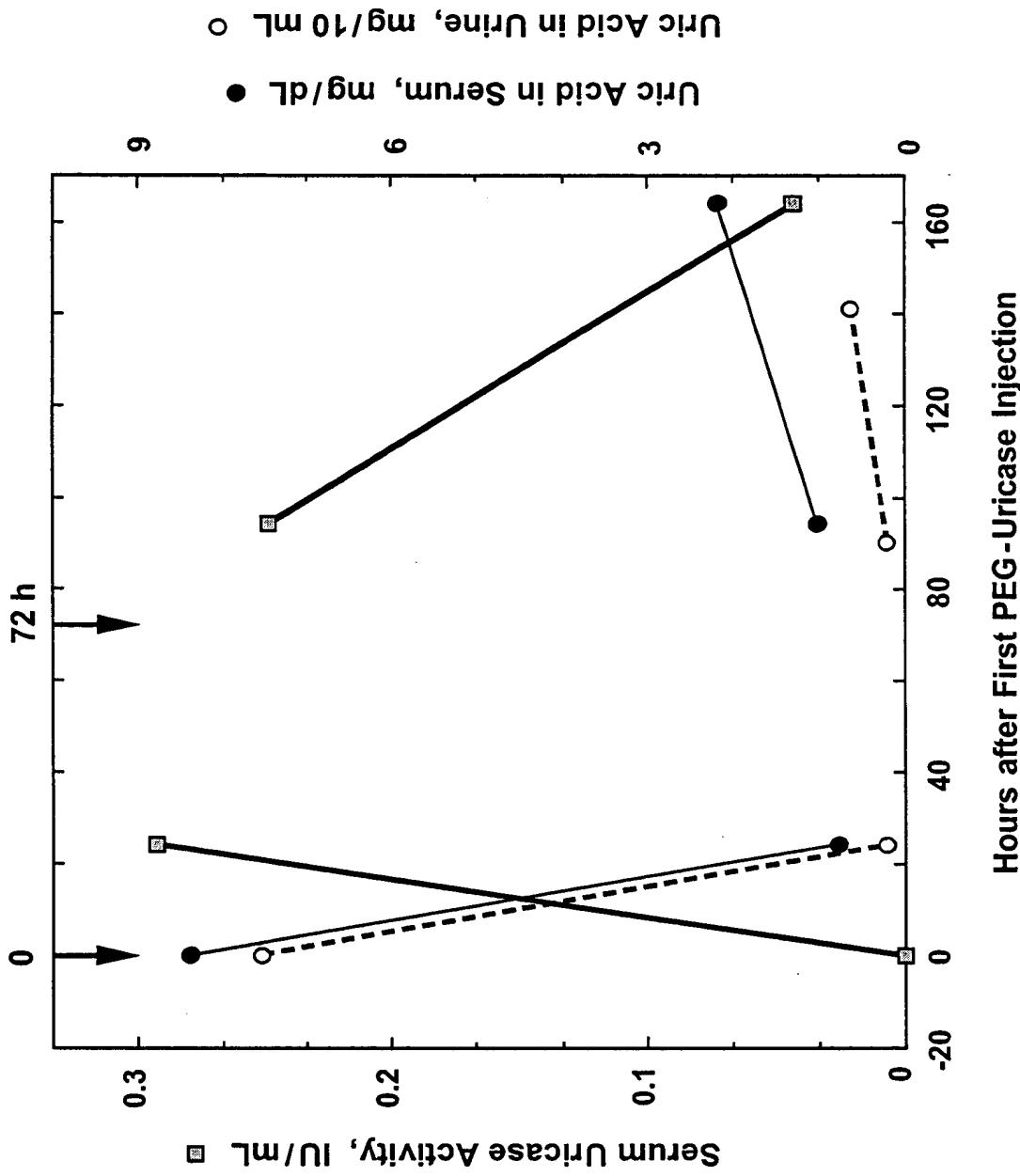


Figure 8: Inverse Relationship between Serum PEG-Uricase Activity and Uric Acid Levels in the Serum and Urine of a Uricase-Deficient Mouse



**Figure 9: Decreased Severity of Urine-Concentrating Defect
in Uricase-Deficient Mice Treated with PEG-Uricase**

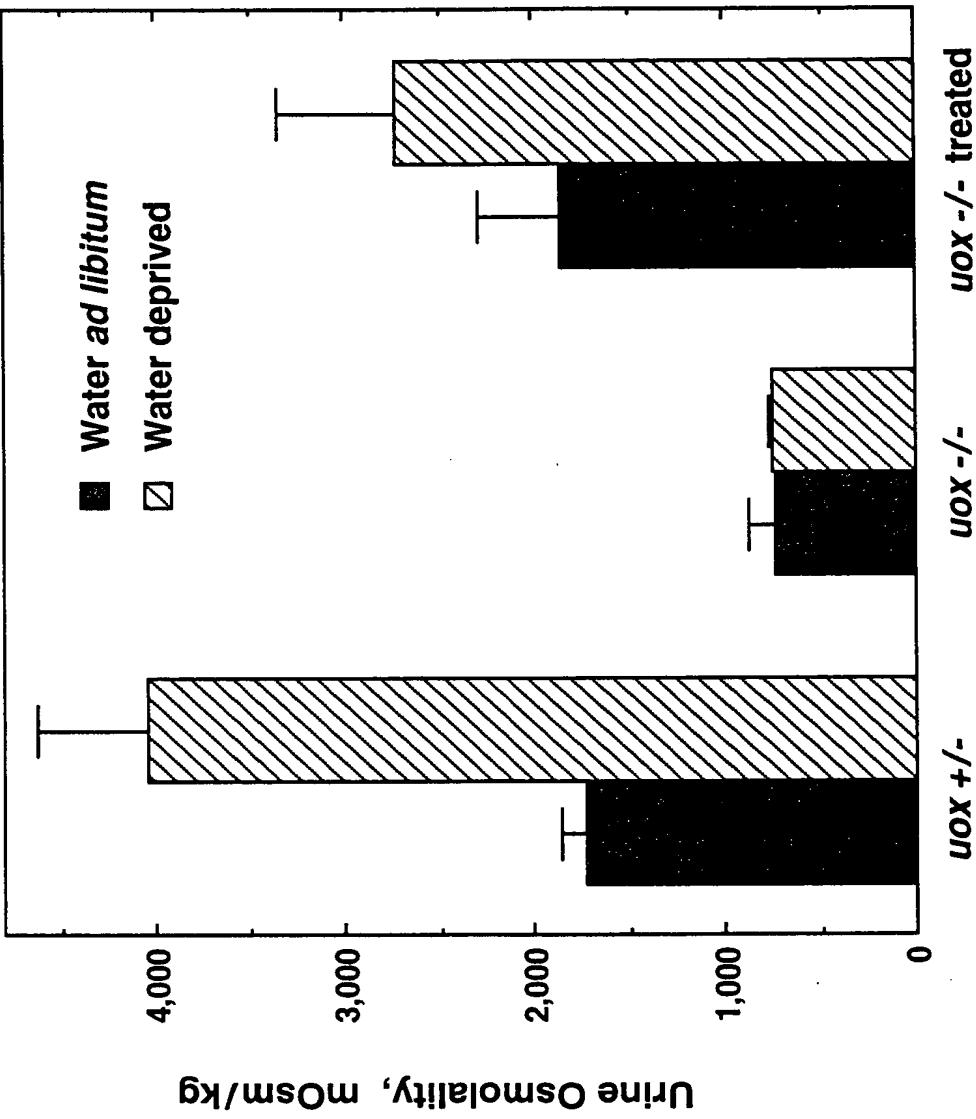


Figure 10: Decreased Severity of Nephrogenic Diabetes Insipidus in Uricase-Deficient Mice Treated with PEG-Uricase

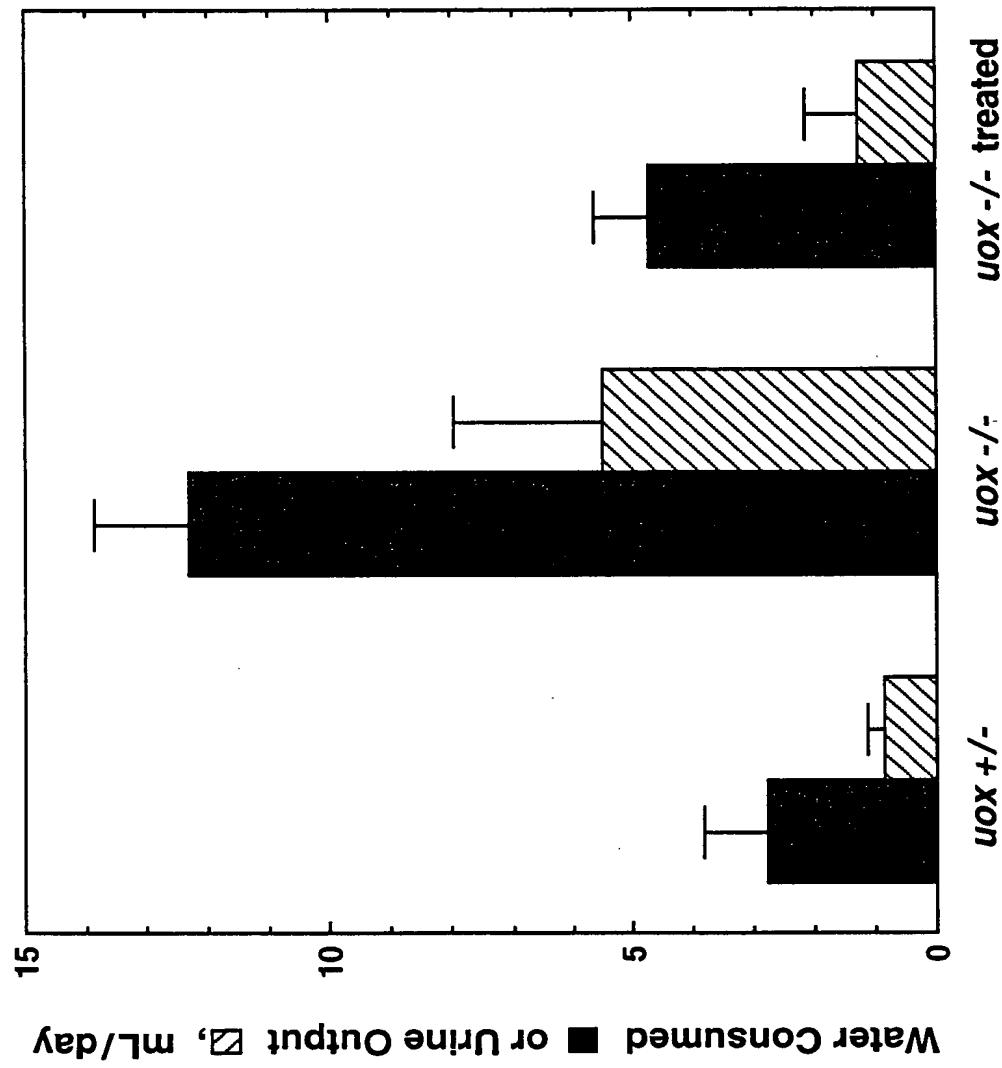
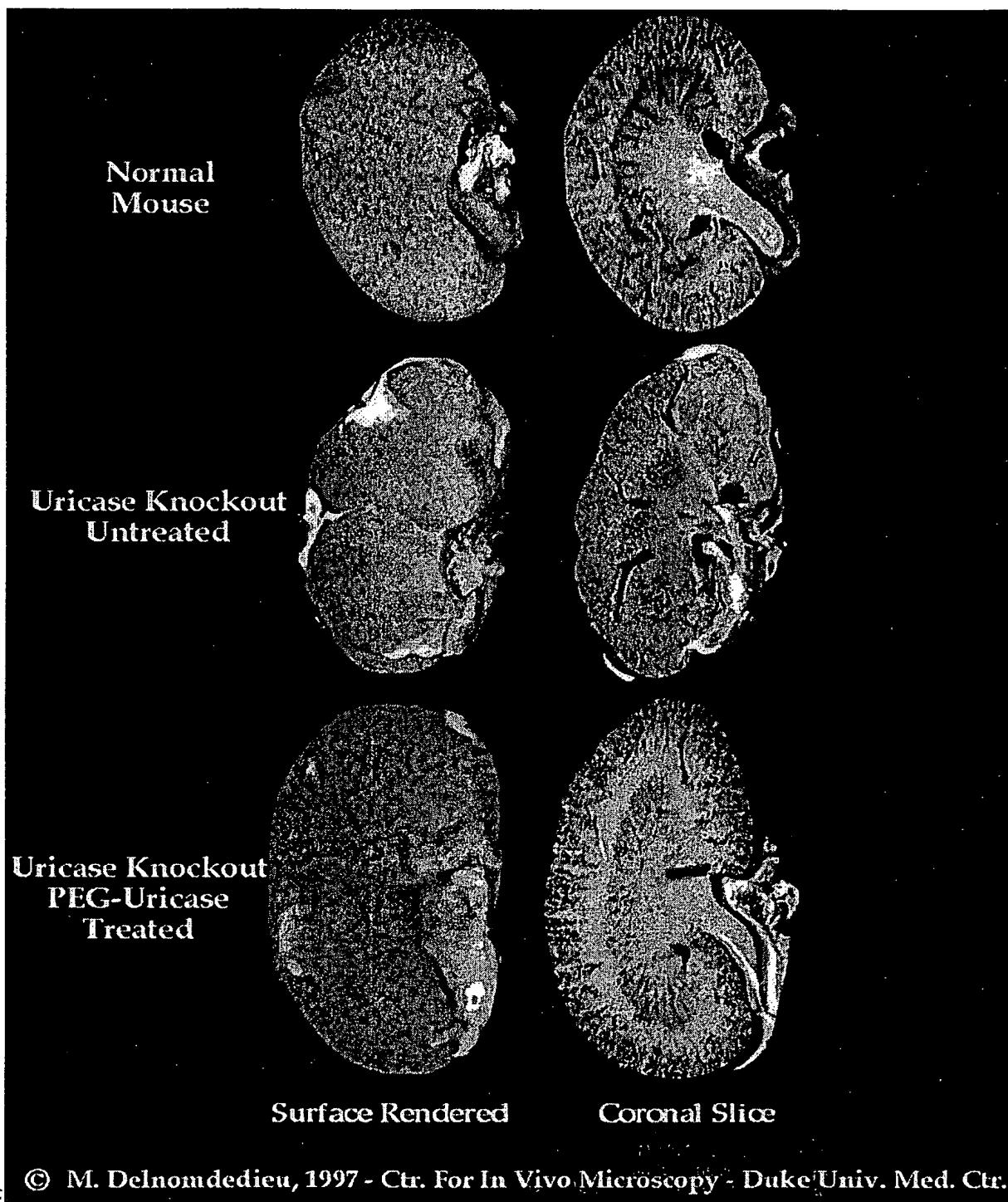


Figure 11:

Decreased Severity of Uric Acid-Induced Nephropathy after Treatment with PEG-Uricase, as Visualized by Magnetic Resonance Microscopy



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Figure 12: Clearance from the Circulation of BALB/c Mice of PBC Uricase

Tetramer and Octamer Coupled to 5-6 Strands of 10-kDa PEG/Subunit

